

Title (en)
CAMERA MODULE

Title (de)
KAMERAMODUL

Title (fr)
MODULE DE CAMÉRA

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Application
EP 12785309 A 20120517

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• KR 20110069335 A 20110713
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• KR 2012003914 W 20120517

Abstract (en)
[origin: WO2012157985A2] The present invention relates to a camera module, the camera module including a PCB (Printed Circuit Board) formed with an image sensor, a holder formed at an upper surface of the PCB and mounted therein with at least one or more lenses, an actuator positioned at the holder, and an electronic circuit pattern layer formed on the holder.

IPC 8 full level
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Citation (search report)
• [X] EP 1890180 A1 20080220 - ST MICROELECTRONICS RES & DEV [GB]
• [X] WO 2010129454 A1 20101111 - LENSVECTOR INC [US], et al
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• [X] US 2009213232 A1 20090827 - ASAKURA JUN [JP], et al
• [X] US 2010158508 A1 20100624 - KIM MIN SOO [KR]
• See references of WO 2012157985A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2012157985 A2 20121122; WO 2012157985 A3 20130321; CN 103548334 A 20140129; CN 103548334 B 20170815;
EP 2710793 A2 20140326; EP 2710793 A4 20141008; EP 2710793 B1 20160831; EP 3094078 A1 20161116; EP 3094078 B1 20190508;
KR 101944280 B1 20190131; KR 20120129784 A 20121128; TW 201251442 A 20121216; TW I583193 B 20170511;
US 2014092296 A1 20140403; US 9270873 B2 20160223

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KR 2012003914 W 20120517; CN 201280023983 A 20120517; EP 12785309 A 20120517; EP 16178719 A 20120517;
KR 20120051778 A 20120516; TW 101117514 A 20120517; US 201214118472 A 20120517